



CONSTRUCTION EQUIPMENT

633392 TUCKER PAVING VOLVO L110H 631215 - DIESEL ENGINE



Sample No: VCP433373
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633392 TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP433373	VCP393514	VCP390679	VCP374621
Sample Date	03 Nov 2023	07 Mar 2023	20 Sep 2022	10 Jun 2022
Machine Hours	12508	11469	10681	10090
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	13.6	13.37
Base Number (BN)	mg KOH/g	10.0	10.0	11.6	11.8
Oxidation (PA)	%	79	87	90	86

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.2
Nitration (PA)	%	68	78	78	67
Sulfation (PA)	%	58	61	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	5
Sodium	ppm	2	2	3	1
Potassium	ppm	<1	0	1	<1



WEAR METALS

Iron	ppm	7	12	8	6
Copper	ppm	<1	1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	4	5	6	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	42	39	43
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	1	<1
Vanadium	ppm	0	<1	1	0



ADDITIVES

Calcium	ppm	1576	1617	1681	1695
Magnesium	ppm	488	503	495	480
Zinc	ppm	1112	1058	1129	1158
Phosphorus	ppm	913	878	937	954
Barium	ppm	0	0	0	0
Boron	ppm	22	23	16	35

Depot: VOLVO0093
Unique No: 10764773
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

